

PONOMARENKO, I.N.; KOSHENKO, A.M.; ZABOLOTSKAYA, T.N.

Characteristics of frontal clouds suitable for the intensification of natural precipitation. Trudy UkrNIGMI no.47:79-87 '65. (MIRA 18:7)

PONOMARENKO, I.N.; ZABOLOTSKAYA, T.N.

Water content of frontal clouds over the steppe region of the
Ukraine according to experimental data. Trudy UkrNIGMI no.48:52-
(MIRA 18:8)
66 '65.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5

PONOMARENKO, I.N.; KOSHENKO, A.M.; ZABOLOTSKAYA, T.N.

Vertical thickness and structure of cloudiness in zones of fronts
over the Ukraine in various synoptic processes. Trudy UkrNIGMI
no.46:67-78 '65. (MIRA 18:8)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5"

ACC NR: AP7000145

SOURCE CODE: UR/0046/66/012/004/0435/0442

AUTHOR: Zabolotskaya, Ye. A.; Soluyan, S. I.; Khokhlov, R. V.

ORG: Chair of Oscillations Physics, Moscow State University (Kafedra fiziki kolebaniy
Moskovskogo gosudarstvennogo universiteta)

TITLE: A combined cadmium sulfide ultrasound amplifier

SOURCE: Akusticheskiy zhurnal, v. 12, no. 4, 1966, 435-442

TOPIC TAGS: ultrasound, ultrasound amplification, ultrasound parametric amplification, cadmium sulfide ultrasound amplifier, CdS ultrasound amplifier, piezoelectric ultrasound amplifier

ABSTRACT: An ultrasound amplifier utilizing the nonlinearities of CdS crystals is described and the mechanism of amplification analyzed. The nonlinearity stemming from the interaction of free electrons with piezoelectric fields makes it possible to amplify the signal wave parametrically at the expense of the pumping wave, while application of a constant electric field to the crystal compensates for acoustic damping of the oscillations. The aim of this approach is to expand the mechanism of amplification to combine it with the parametric interaction between the signal and the pumping waves under conditions of a nonlinear interdependence of the carrier flow and the electric field of the acoustic wave within the crystal. Although the nonlinearity coefficient is dependent on too many parameters to be analyzed in general terms, some numerical computations indicate the feasibility of a parametric amplifier.

UDC: 534—16:621.375

Card 1/2

ACC NR: AP7000145

tion. The high degree of nonlinearity of CdS, the possibility of maintaining the acoustic waves by application of a constant field, and the low absorption of the material, all contribute to the conditions under which the amplification takes place sufficiently far below the self-excitation point, thereby ensuring a lower noise level than that of existing types of acoustic amplifiers. Orig. art. has: 2 figures, 1 table, and 31 formulas.

SUB CODE: 20/ SUBM DATE: 12Feb65/ ORIG REF: 003/ OTH REF: 007/ ATD PRESS: 5108

Card 2/2

L 30392-66 EWT(1)

ACC NR: AP6016828

SOURCE CODE: UR/0046/66/012/002/0188/0191

AUTHOR: Zabolotskaya, Ye. A.; Soluyan, S. I.; Khokhlov, R. V.

ORG: Department of Physics of Vibrations, Moscow State University (Kafedra fiziki
kolebanij Moskovskogo gosudarstvennogo universiteta)

TITLE: Parametric amplifier for ultrasound

SOURCE: Akusticheskiy zhurnal, v. 12, no. 2, 1966, 188-191

TOPIC TAGS: ultrasonic amplification, parametric amplifier, Cauchy problem,
ultra sound

ABSTRACT: In view of recent interest in the problem of ultrasound amplification, the authors propose a parametric ultrasound amplifier, in which use is made of interaction of two intersecting waves propagating in an isotropic solid. The wave of the signal is directed at an angle to the pump wave, thus causing spatial separation of the combination waves. At a certain angle between the directions of the signal and pump wave propagations the condition for effective interaction is satisfied for one of the combination waves. The theory of this amplifier is presented and an estimate of the gain is given. The problem reduces to a Cauchy problem, so that the solution obtained is unique. The nonlinearity of the medium gives rise to pump harmonics, so that at a certain distance from the input to the system the pump wave will have a sawtooth form. It is shown that if the condition of effective interaction of the waves is satisfied for the fundamental harmonic components, it is not satisfied for the higher combination components. It is concluded on the basis of the results that

Card 1/2

UDC: 534.222

L 30392-66

ACC NR: AP6016828

a parametric amplifier for ultrasound is feasible. Orig. art. has: 1 figure and
11 formulas. [02]

SUB CODE: 20/ SUBM DATE: 04Dec64/ ORIG REF: 004/ OTH REF: 002/ ATD PRESS:

5817

Card 2/2 C.C.

ZABOLOTSKAYA, YE. V.

Khomikovskiy, P. M., Zabolotskaya, Ye. V. and Medvedev, S. S.

"The polymerization of vinyl cyanide and methyl metacrylate
in soap solutions emulsions," In the symposium:
Investigations in the field of complex-molecular compounds,
Moscow-Leningrad, 1949, p. 45-55, - Bibliog: 6 items

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, No. 26, 1949)

U S S R .

Kinetics and mechanism of copolymerization of vinyl chloride and vinylidene chloride
M. V. Fedorov, P. M. Kostomarov, and I. A. L'vova
Pis. Akad. Nauk SSSR 27, 517 (1957).
The copolymerization of vinyl chloride (I) and vinylidene chloride (II) in the presence of benzoyl peroxide (III) in an emulsion stabilized with Na oleate at temps. from 50 to 70° was studied in a described and illustrated vacuum apparatus. The initial mole fractions (ϕ) of I, II, and III, the reaction time (t), and the temp. (T) were varied. The yield of copolymer and the mole fractions (ϕ') of I and II in the latter are tabulated and graphed as func. of t . The ϕ' of I and II in the copolymer is greater than ϕ . As III is continuously consumed when it is used up, its reaction slows. The rate of copolymerization of I and II is less than the rate of polymerization of I or II alone. II is more reactive than I, but the radical of II is more reactive than that of I.

J. W. Lowenberg, Jr.

ZABOLOTSKAYA, YE. V.

Chemical Manufacturing Processes

Dissertation: "Investigation of the Mechanism of Emulsion Polymerization."
Cand Chem Sci, Order of Labor Red Banner Sci Res Physicochemical Inst imeni
L. Ya. Karpov, 8 Mar 54. (Vechernaya Moskva, Moscow, 1 Mar 54)

SO: SUM 213, 20 Sept 1954

Zaboletskaya, Ye. V.,

USSR/Chemistry of High Molecular Substances.

F

Abs Jour: Ref Zhur - Khimiya, No. 8, 1957, 27060.

Author : Zaboletskaya, Ye. V.; Sebeleva, I.G.;
Makletseva, N.V.; Medvedev, S.S.

Inst :
Title : Study of Mechanism of Emulsion Polymerization.

Orig Pub: Kelleid. zh., 1956, 18, No. 4, 420 - 428.

Abstract: The kinetic, nephelometric and tensiometric study of the polymerization (P) of isoprene in aqueous solutions of N-cetylpyridinium bromide in presence of H_2O_2 as initiator and under constant pressure of monomer vapors on the solution was carried out. The speed of P and the total surface of particles do not change within the studied limits of the conversion degree, but they are proportional to the initial

Card 1/2

ACCESSION NR: AP4009150

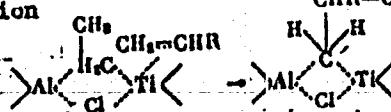
S/0190/64/006/001/0081/0085

AUTHORS: Zabolotskaya, Ye. V.; Khodzhamirov, V. A.; Gantmakher, A. R.; Medvedev, S. S.

TITLE: Investigation of polymerization mechanism in isoprene with styrene catalyzed by $\alpha - \text{TiCl}_3 - \text{Al}(\text{C}_2\text{H}_5)_3$

SOURCE: Vy'sokomolekulyarnye soyedineniya, v. 6, no. 1, 1964, 81-85

TOPIC TAGS: polymerization, styrene, catalyst, isoprene, copolymer chain, monomer, differential composition

ABSTRACT: The mechanism of the $\alpha - \text{TiCl}_3 - \text{Al}(\text{C}_2\text{H}_5)_3$ combination catalyzed polymerization and copolymerization of isoprene and styrene has been investigated. It is assumed that in the primary initiation, the reaction

has no effect on the polymerization rate, and the polymer molecule dimension is limited by the reaction break-off of molecular chains. The polymerization rates for

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ACCESSION NR: AP4009150

styrene and isoprene then yield respectively $v_A = k_A \cdot A \cdot c_A$. The rate constant k_{BB}
 $v_B = k_B \cdot B \cdot c_B$.

of isoprene molecule transition is determined from the catalytic complex to the copolymer chain as $4.15 \times 10^{-2} \text{ min}^{-1}$. From differential rate equations describing the entry of each monomer (styrene A, isoprene B) into a copolymer, equations of differential composition of the polymer for each monomer are derived

$$\frac{dA}{dB} = \frac{[A]}{[B]} \frac{k_A \cdot A \cdot k_A \cdot [A]}{k_B \cdot B \cdot k_B \cdot [B] + k_B \cdot A \cdot k_A \cdot [B]} , \text{ from which copolymerization constants } r_A \text{ and } r_B \text{ are}$$

determined as being 0.1 and 6.0, respectively. It has been shown that inhibition of styrene polymerization by small isoprene additions is due to a decrease in styrene molecule addition rate to the end of the polymer chain when this unit is an isoprene rather than a styrene residue. Orig. art. has: 16 formulas, 1 figure, and 1 table.

ASSOCIATION: Fiziko-khimicheskii institut im. L. Ya. Karpova (Physicochemical Institute)

Card 2/3

ACCESSION NR: AP4009150

SUBMITTED: 07Aug62

SUB CODE: OC

DATE ACQ: 10Feb64

NO REF SOV: 004

ENCL: CO

OTHER: CO3

Card 3/3

ZABOLOTSKAYA, Ye.V.; KHODZHEMIROV, V.A.; GANTMAKHER, A.R.; MEDVEDIEV, S.S.

Separate polymerization and copolymerization of isoprene in
the presence of $\alpha\text{-TiCl}_3$ - $\text{Al}(\text{C}_2\text{H}_5)_3$. Vysokom. soed. 6
no.1:76-80 Ja'64.

Mechanism underlying the polymerization of isoprene with
styrene catalyzed by $\alpha\text{-TiCl}_3$ - $\text{Al}(\text{C}_2\text{H}_5)_3$. Ibid., 81-85

1. Fiziko-khimicheskiy institut imeni Karpova.

ACCESSION NR: AP4009149

S/0190/64/006/001/0016/0060

AUTHORS: Zabolotskaya, Ye. V.; Khodzhimirov, V. A.; Ortnakhor, A. N.; Medvedev, S. S.

TITLE: Polymerization and copolymerization of isoprene in the presence of alpha-TiCl₃ - Al(C₂H₅)₃

SOURCE: Vy*skomolekulyarnye soyedineniya, v. 6, no. 1, 1964, 76-80

TOPIC TAGS: polymerization, copolymerization, isoprene, styrene, catalyst, alpha-titanium trichloride, triethyl aluminum, polymerization rate, copolymerization rate, activation energy

ABSTRACT: The polymerization of isoprene and its copolymerization with styrene were conducted in benzene, in the presence of alpha-TiCl₃ - Al(C₂H₅)₃. The work was done at 75°C, and the extent of polymerization did not exceed 10%. The polymers were reprecipitated by methanol and subjected to chemical analysis, determination of viscosity, molecular weight, and infrared spectroscopy. When 0.97-3.03 Mol/liter concentrations of isoprene (constant amount of catalyst) were tested, it was observed that the molecular weights of the obtained polymers were independent of the

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Card

ACCESSION NR: AP/009149

isoprene concentration, and that the increase in polymerization rate was not proportional to the concentration of the monomer. But the polymerization rate of isoprene proved to be proportional to the amount of $TiCl_3$, as is also the case with styrene and the olefines. Within a temperature range of 60-95°C the yield of the polymer increased with the temperature. The overall activation energy of isoprene polymerization was estimated as 13 ± 0.5 Kcal/Mole. The copolymerization of isoprene with styrene showed that an 8.5% addition of isoprene had a three- to four-fold lowering effect on the polymerization rate of styrene and on its molecular weight. The copolymers were greatly enriched in isoprene. The addition of styrene to the isoprene monomer lowered the polymerization rate of isoprene more moderately. Thanks are given to N. V. Wakletsov and L. P. Golovin for molecular weight determinations, and to N. V. Desyatov for analysis of composition of the polymers. Orig. art. has: 2 tables and 8 charts.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physical-Chemical Institute)

SUBMITTED: 07 Aug 62

DATE ACQ: 10 Feb 64

ENCL: 00

SUB CODE: CH

NO. REF Sov: 002

OTHER: 001

2/2

Card

MEDVEDEV, S.S.; KHOLOKOVSKIY, P.M.; SHEYNKER, A.P.; ZABOLOTSHAYA, Ye.V.;
BEREZHOVSKAYA, G.D.

Some laws governing emulsion polymerization. Probl.fiz.khim.
no.1:5-17 '58. (MIRA 15:11)

I. Laboratoriya polimeratsionnykh protsessov Nauchno-
issledovatel'skogo fiziko-khimicheskogo instituta im.
Karpova. (Polymerization) (Emulsions)

ZABOLOTSKAYA, N. V.; KHODZHEMIROV, V.A.; GANTMAKHER, A.R.; MEDVEDEV, S.S.
akademik

Separate polymerization and copolymerization of isoprene under the
action of α -TiCl₃-Al(C₂H₅)₃. Dokl. AN SSSR 140 no.4:825-828 O '61.
(MIRA 14:9)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova.
(Isoprène) (Polymerization)

15 920

29012

S/020/61/140/004/013/023

B106/B110

AUTHORS: Zabolotskaya, Ye. V., Khodzhemirov, V. A., Gantmakher, A. R.,
and Medvedev, S. S., Academician

TITLE: Polymerization and copolymerization of isoprene under the
action of $\alpha\text{-TiCl}_3 \cdot \text{Al}(\text{C}_2\text{H}_5)_3$

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 140, no. 4, 1961, 825 - 828

TEXT: The authors studied the kinetics of polymerization of isoprene alone and together with styrene under the action of titanium trichloride and triethyl aluminum. To prevent precipitation of the polymer, benzene was used as solvent. Polymerization was carried out dilatometrically. The components were dosed in analogy with data in Ref. 1 (Ye. V. Zabolotskaya, A. R. Gantmakher, S. S. Medvedev, Vysokomolek. soyed., 2, No. 8, 1213 (1960)). All kinetic data were determined at 75°C, the degree of conversion did not exceed 10% by weight. Viscosity, molecular weights, and compositions of polymers were determined in dry argon atmosphere. The average-weight molecular weights (M_w) were measured by the light scattering method, the average-number molecular weights (M_n) by the osmotic method.

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5/020/61/140/004/013/023
B106/B110

Polymerization and copolymerization...

The compositions of copolymers were determined by IR spectroscopy. The authors thank N. V. Makletsova and A. P. Golovina for measuring the molecular weights, and N. V. Desyatova for carrying out the spectrometric measurements. When studying the polymerization of isoprene, polymerization rate and titanium chloride concentration per unit volume were found to be linearly dependent. This indicates that the number of active centers is determined by the concentration of the $TiCl_3 \cdot Al(C_2H_5)_3$ complex on the surface of $TiCl_3$. All experiments were performed with $TiCl_3$ of a medium grain size of $1.5-2\mu$. The relation between polymerization rate and monomer concentration, however, is not linear, polymerization rate increases more slowly than isoprene concentration. Polymerization probably takes place on the catalyst surface via complex formation of the monomer with the titanium component of the catalyst, and subsequent penetration of a polarized monomer into the Al-C bond. The total activation energy of polymerization was determined to be 13 kcal/mole from the temperature dependence of the polymerization rate of isoprene at $60 - 95^{\circ}C$. Table 1 shows the results of molecular weight determinations. The ratio M_w/M_n is close to unity, which indicates that the resultant

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S/020/61/140/004/013/023

B106/B110

Polymerization and copolymerization ...

polyisoprene exists in the monodisperse phase. The molecular weight depends slightly on the monomer concentrations. When studying the copolymerization of isoprene and styrene, the composition of copolymers and the polymerization rate were determined as a function of the composition of the initial mixture (Figs. 2, 3). It may be seen from Fig. 2 that the copolymers are considerably enriched in isoprene as compared with the composition of the initial mixture. Fig. 3 shows that the rate of copolymerization is much lower than the rates of separate polymerizations of isoprene and styrene. The inhibitory effect of isoprene is particularly high if it is added to styrene in small quantity. The inhibitory effect is due to the reduced reaction rate when a polarized monomer enters the Al-C bond of the transition complex of the chain with the catalyst. This decrease in rate takes place when the styrene molecule in the end group of the chain is replaced by isoprene. It was found that the molecular weights of polymers vary cymbately with a change in polymerization rate at different compositions of the initial mixture (comparison of data from Table 1 with Fig. 3). There are 3 figures, 1 table, and 8 references; 3 Soviet and 5 non-Soviet. The three references to English-language publications read as follows: J. Still, Chem. Rev., 58, 541

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29012

S/020/61/140/004/013/023

B106/B110

Polymerization and copolymerization ...

(1958); G. Natta, J. Pasquon, Advances in Catalysis, 11, 68 (1959); N. G. Gaylord, Trans. N. Y. Acad. Sci., 22, № 6, 387 (1960).

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov)

SUBMITTED: May 29, 1961

Table 1. Molecular weights of polymers (the molecular weight of polystyrene is of the order of 10^6 (Ref. 1)).

Legend: (1) moles/liter; (2) moles/liter·min; (3) isoprene in the initial mixture, mole%; (4) molecular weight· 10^{-3} .

Table 1

| [C ₂ H ₄], МОЛ/Л (1) | [C ₃ H ₆], МОЛ/Л (1) | [Al(C ₂ H ₅) ₂ . .10M], МОЛ/Л (1) | TiCl ₄ ·10 ³ , МОЛ/Л (1) | V·10 ³ , МОЛ Л·МНН (2) | Изопрен в исходн. смеси, МОЛ-% (3) | (%) | (4) Мол. вес·10 ⁻³ | M _w | M _n |
|---|---|--|--|--|--|------|----------------------------------|----------------|----------------|
| 0.97 | — | 3.62 | 3.63 | — | 100 | 2.15 | 600 | 500 | 500 |
| 3.03 | — | 3.72 | 3.62 | — | 100 | 2.25 | 700 | 630 | 630 |
| 7.35 | 0.64 | 3.64 | 3.17 | 11.8 | 67.3 | 2.30 | — | 610 | 610 |
| 10.83 | 1.01 | 3.58 | 3.22 | 8.2 | 48.5 | 2.00 | — | 573 | 573 |
| 0.41 | 3.60 | 3.28 | 3.65 | — | 13.0 | 2.00 | — | 386 | 386 |

Card 4/64

S/190/60/002/008/009/017
B004/B054

AUTHORS: Zabolotskaya, Ye. V., Gantmakher, A. R., Medvedev, S. S.

TITLE: Polymerization of Styrene Under the Action of Complex Catalysts

PERIODICAL: Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 8,
pp. 1213-1220

TEXT: The authors attempted to determine the mechanism of polymerization of styrene by combined catalysts of $TiCl_3$ and triisobutyl- or triethyl aluminum. Dosing of aluminum alkyl and $TiCl_3$ was conducted in vacuo by means of the glass vessel shown in Fig. 1. Polymerization was performed in the apparatus of Fig. 2. Vessel 1 contained a ball with aluminum alkyl. The apparatus was evacuated to 10^{-3} mm Hg for 18 hours. In a nitrogen flow, $TiCl_3$ was then filled into the dilatometer 2, and the styrene dissolved in benzene was filled into vessel 3. The content of 3 was poured into 1, the ball with the aluminum alkyl broken, and the whole filled into the dilatometer 2. The dilatometer was melted off the vacuum apparatus at 250-300 mm Hg.

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Polymerization of Styrene Under the Action
of Complex Catalysts

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and polymerization was performed in a thermostat at 75°C. The following results were obtained: 1) There is a proportionality between the polymerization rate w (moles/l·min) and the $TiCl_3$ concentration: for 0.0228 moles/l of $TiCl_3$, $w \cdot 10^2 = 0.186$; for 0.1430 moles/l of $TiCl_3$, $w \cdot 10^2 = 0.635$. 2) w is a linear function of styrene concentration: for 0.650 moles/l of styrene, $w \cdot 10^2 = 0.060$; for 3.74 moles/l of styrene, $w \cdot 10^2 = 0.379$. 3) The aluminum alkyl concentration (between 0.01 and 0.06 moles/l) and the ratio between $TiCl_3$ and aluminum alkyl do not affect the polymerization rate. 4) A study of the temperature dependence of the polymerization rate showed: at 84°C, $w \cdot 10^2 = 0.281$; at 63.5°C, $w \cdot 10^2 = 0.083$. 5) When calculating $w' = w \cdot 10^3 / [TiCl_3] [\text{styrene}]$, $\log w'$ is a linear function of $1/T$. The activation energy was found to be 11.0 kcal/mole. 6) 60-70% of the polymer obtained had a molecular weight of 1,000,000 - 1,500,000. The molecular weight did not depend on the monomer concentration. These data indicate a mechanism of polymerization similar to the polymerization of ethylene and propylene: $M_n^* + M \rightarrow M_n + M^*$. The authors thank Z. V. Zvonkova

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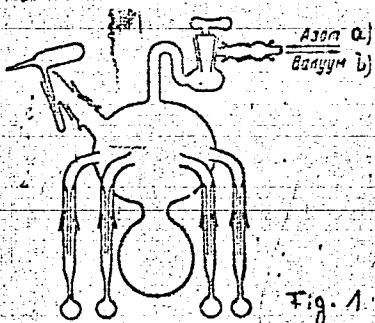
Polymerization of Styrene Under the Action
of Complex Catalysts

S/190/60/002/008/009/017
B004/B054

and N. S. Ivanova for determining the modification of α -TiCl₃; and N. V. Makletsova for determining the molecular weight of the polymers. There are 8 figures, 6 tables, and 15 references: 2 Soviet, 6 US, 1 French, 3 German, and 3 Italian.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova
(Physicochemical Institute imeni L. Ya. Karpov)

SUBMITTED: March 28, 1960

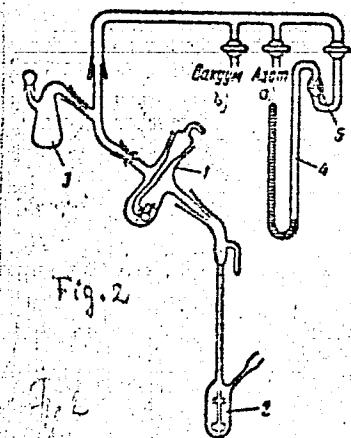


Legend to Fig. 1: Vessel
for dosing the aluminum
alkyl a) nitrogen,
b) vacuum.

Fig. 1

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S/190/60/002/008/009/017
B004/B054



Legend to Fig. 2: Device
for filling the dilatometer
a) nitrogen,
b) vacuum.

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SOV/81-59-10-37461

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 577 (USSR)

AUTHORS: Medvedev, S.S., Khomikovskiy, P.M., Sheynker, A.P., Zabolotskaya, Ye.V.,
Berezhnoy, G.D.

TITLE: The Regularities of Emulsion Polymerization ¹

PERIODICAL: V sb.: Probl. fiz. khimii. Nr 1, Moscow, Goskhimizdat, 1958, pp 5-17 ✓

ABSTRACT: A review. There are 13 references.

Card 1/1

ALEKSANDROV, B.M.; GORDEEV, O.N.; ZABOLOTSKIY, A.A.

Limnological characteristics of Lake Lososinskoye. Uch.zap.Kar.ged.
Inst. 7:41-65 '58. (MIRA 15t2)
(Lososinskoye,Lake—Limnology)

ALEKSANDROV, B.M., nauchnyy sotrudnik; ALEKSANDROVA, T.N., nauchnyy sotrudnik; BELYAYEVA, K.I., nauchnyy sotrudnik; GORBUNOVA, Z.A., nauchnyy sotrudnik; GORDEYEVA-PETSEVA, L.I., nauchnyy sotrudnik; GORDEYEVA, L.N., nauchnyy sotrudnik; GULIAYEVA, A.M., nauchnyy sotrudnik; DMITRENKO, Yu.S., nauchnyy sotrudnik; ZABOLOTSKIY, A.A., nauchnyy sotrudnik; MAKAROVA, Ye.F., nauchnyy sotrudnik; NOVIKOV, P.I., nauchnyy sotrudnik; POKROVSKIY, V.V., nauchnyy sotrudnik; SMIRNOV, A.F., nauchnyy sotrudnik; STEFANOVSKAYA, A.F., nauchnyy sotrudnik; URBAN, V.V., nauchnyy sotrudnik. Prinimali uchastiye: BALAGUROVA, M.V., nauchnyy sotrudnik; WEBER, D.G., nauchnyy sotrudnik; POTAPOVA, O.I., nauchnyy sotrudnik; SOKOLOVA, V.A., nauchnyy sotrudnik; FILIMONOVA, Z.I., nauchnyy sotrudnik; POPENKO, L.K., nauchnyy sotrudnik; ZITSAR', N.A., red.; PRAVDIN, I.F., red.; PANKRASHOV, A.P., red.; SHEVCHENKO, L.V., tekhn.red.

[Lakes of Karelia; natural features, fishes, and fisheries] Ozera Karelii; priroda, ryby i rybnoe khoziaistvo; spravochnik. Petrozavodsk, Gos.izd-vo Karel'skoi ASSR, 1959. 618 p. (MIRA 13:8)
(Continued on next card)

ALEKSANDROV, B.M. --- (continued) Card 2.

1. Russia (1917- R.S.F.S.R.) Karel'skiy ekonomicheskiy admi-nistrativnyy rayon. Sovet narodnogo khozyaystva. 2. Karel'skoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta ozernogo i rechnogo rybnogo khozyaystva (for Aleksandrov, Aleksandrova, Be-lyayeva, Gorbunova, Gordeyeva-Pertseva, Gordeyeva, Gulyayeva, Dmitrenko, Zabolotskiy, Makarova, Novikov, Pokrovskiy, Smirnov, Stefanovskaya, Urban). 3. Karel'skiy filial AN SSSR (for Balagurova, Weber, Potapova, Sokolova, Filimonova, Popenko).

(Karelia--Lakes)

ZABOLOTSKIY, A.Y.

Oscillographic data on intra-arterial injection of drugs.
(MIRA 11:6)
Vrach.delo no.4:353-355 Ap'58

1. Kafedra fakul'tetskoy khirurgii (sav. - prof. V.I. Akimov)
sanitarno-digiyenicheskogo i pediatricheskogo fakul'teta L'vovskgo
meditsinskogo instituta.
(ARTERIES)

ZABOLOTSKIY, A.G.

Spontaneous rupture of the aorta without marked changes. Klin. med.
Moskva 31 no.5:87 May 1953. (CIMI 25:1)

1. Leningrad.

6271

ZABOLOTSKIY, A. T. Cand Med Sci -- (diss) "Combined treatment of trophic
ulcers of the lower extremities." L'vov, 1959. 15 pp (L'vov State Med Inst).
250 copies (KL, 49-59, 143)

-73-

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5

ZABOLOTSKIY, F., prepodavatel'

Your motto: "Be proud of your profession." Obshchestv. id.t.
no.12:30 D '61. (MIR! 16:12)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5"

ZABOLOTSKIY, F.D.; GAYDOVSKIY, V.M., redaktor; KOVALIKHIN, N.I., tekhnicheskiy
redaktor.

[New machines and devices for making road surfaces by mixing materials
on the road] Novye mashiny i prispособleniya dlia obratotki pokrytii
sposobom smeshenija na doroge. Moskva, Avtotransizdat, 1953. 35 p.

(MLRA 7:5)

(Mixing machinery) (Road machinery)

ALEKSANDROV, Boris Sergeyevich; ALEKSEYEV, A.P.; ZABLOTSKIY, F.D.;
KONDAKOV, A.Yu.; NEGODAYEV, V.I.; RYB'YEV, I.A.; SARSATNIKOV,
P.I.; CHARUTSKIY, A.P.; SHOMIKOV, I.S.; BABKOV, V.F., Michtor tekhnicheskikh
nauk, professor, redaktor; CHIVANOV, V.O., redaktor; KAL'KO-
VA, N.V., tekhnicheskiy redaktor.

[Handbook for road foremen] Spravochnoe rukovodstvo dlia dorozhnogo
mastera. Pod red. V.F.Babkova. Moskva, Nauchno-tekhn. Izd-vo avto-
transportnoi lit-ry, 1954. 450 p. [Microfilm] (MIRA 8:2)
(Roads)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5

ZHOLTOV, A.G.; ZABOLOTSKIY, F.D.

Masters of highly productive labor N.N.Pavlov and M.P.Plotnikov.
Avt. dor. 18 no.3:11-13 Ky-Je '55. (MLRA 8:9)
(Earthwork)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5"

~~ZABOLOTSKIV Fedor Danilovich; ZHOLTOK, Adolf Georgiyevich; VEITSEKH, M.I.~~
~~redaktor; MAL'KOVA, N.V., tekhnicheskiy redaktor~~

[Leading road graders; practices of the innovators M.F.Plotnikov
and M.I.Matusevich] Peredovye avtograderyatiy; iz opyta raboty
novatorov M.F.Plotnikova i M.I.Matusevicha. Moskva, Mashno-tehn.
izd-vo avtotransp.lit-ry, 1957. 33 p. (MLRA 10:8)
(Road machinery)

ZABOLOTSKIY, F.D., inzhener; ZHOLTOK, A.G., inzhener.

Over-all preparation of roads for springtime. Avt.dor. 20 no.3:12-13
Mr '57. (MIA 10:5)

(Roads--Maintenance and repair)

Z.A.BOLOTSKY F.D.

SARKISIYANTS, G.A., insh.; ZABOLOTSKY, F.D., insh.

New machine for distributing asphalt concrete mixes. Avt. dor. 21
no. 1740-3 of cover Ja '58. (MIRA 11:1)
(Road machinery)

ZABOLOTSKIY, F.

Technical service on highways. Avt.transp. 43 no.11:31 N '65.
(MIRA 18:12)

1. Ministerstvo avtomobil'nogo transporta i shosseynykh
dorog RSFSR.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5

ZABOLOTSKIY, F.D., inzh.; NIKOLAYEV, A.A., inzh.

Machines for highway maintenance in winter. Stroi. i dor. mash.
9 no.12:6-8 D '64. (MIRA 18:3)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5"

ZABOLOTSKIY, Fedor Danilovich; PRUSOV, V.V., red.; DONSKAYA, G.D., tekhn. red.

[Truck-mounted grader] Avtogeodery. Moskva, Nauchno-tekhn. izd-vo
M-va avtomobil'nogo transporta i shosseinykh dorog RSFSR, 1959. 167 p.
(MIRA 14:10)

(Graders (Earthmoving machinery)) (Motor trucks)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5

ZABOLOTSKIY, F.D., inzh.

Effective form of control over the operation and repair of road
machinery. Avt. dor. 27 no.2:9-10 F '64. (MIRA 17:3)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5"

MIKHAYLOV, Aleksey Nikolayevich; ZABOLOTSKIY, F.D., red.

[Operating machinery used in the construction of
concrete pavements; a manual for mechanics] Ekspluata-
tsiya mashin dlia ustroistva betonnykh pokrytii; spra-
vochnik mekhanika. Moskva, Transport, 1964. 253 p.
(MIRA 18:1)

ZABOLOTNIKOVA, I.I.; KHVATOV, V.V.

Alkali rocks in the Synzas section. Mat.po geol.Zap.Sib. no.64;
173-177 '63.

Nepheline and sodalite-cancrinite rocks in the Kobarinsk section.
Ibid.,177-193 (MIRA 17:4)

ZABOLOTSKIY, K.

Plan for the mechanization of elevators of the Office of Grain Procurement in Rostov Province. Muk.-elev.prom. 21 no.1:15 Ja '55.

(MURA 8:5)

1. Rostovskaya kontera Zagotzerno.
(Rostov Province—Grain elevators)

ZABOLOTSKIY, K.

Urgent tasks. Muk.-elev.prom. 21 no.4:27 Ap '55. (MLRA 8:7)

1. Rostovskaya kontora Zagotzerno
(Grain--Storage)

ZABOLOTSKIY, K.

We examine the reports of directors at meetings of the industrial group. Muk.-elev.prom.21 no.8:30 J1[Ag] '55. (MLRA 8:12)

1. Rostovskaya kontora Zagotzerno
(Rostov Province--Grain trade)

ZABOLOTSKIY, K.

Mechanize grain procurement points. Muk.-elev.prem.21 no.11:4-5
N '55. (MLRA 9:4)

1. Restevskaya oblastnaya kontora Zagetzerne.
(Grain elevators)

ZABOLOTSKIY, K.

They reorganized forms for making repair estimates. Muk.-elev.
prom. 23 no.2:30 F '57. (MLRA 10:5)

1. Rostovskaya oblastnaya kontora Rosglavzerno.
(Grain trade)

ZAGLOTSKII, K.

Sorting machines for separating wheat from barley. Muk.elev.prom.23
no.8;27 Ag. '57. (MIRA 10:11)

1. Rostovskoye oblastnoye upravleniya khleborproduktov.
(Wheat--Cleaning) (Barley--Cleaning)

BUGRAYEV, A.; IADIKOV, A.; ZABOLOTSKIY, K.; FILIPPOV, G., kand. ekonomicheskikh
nauk

"Problems concerning the economy of grain receiving enterprises" by
A.A. Borinevich. Reviewed by A. Bugraev and others. Mik.-elev.
prom. 28 no.6:30-32 Je '62. (MIRA 15:7)

1. Moskovskoye oblastnoye upravleniye khleboproduktov (for Bugrayev).
2. Kiyevskoye upravleniye khleboproduktov (for Iadikov). 3. Rostovskoye
upravleniye khleboproduktov (for Zabolotskiy). 4. Moskovskiy
tekhnologicheskiy institut pishchevoy promyshlennosti (for Filippov).
(Grain elevators) (Borinevich, A.A.)

ZABOLOTSKIY, K.

Shortcomings in the work of the State Institute for Planning Flour
and Feed Mills and Grain Elevators. Muk.-elev. prom. 27 no.6:25-26
Je '61. (HIRA 1416)

1. Rostovskoye upravleniye zagotovok.
(Grain elevators)

SHURYGIN, V.P., kand. tekhn. nauk; KUZLOVSKII, V.O.; BABOLOTSKII, I.P., inzh.

[Investigating the design of overhead contact systems and methods of constructing them.] Issledovanie konstruktaii kontaktnej seti i metodov ee sooruzheniya. Moskva, Transport, 1965. 147 p. (Vsesoyuznyy nauchno-issledovatel'skiy institut transportnogo stroitel'stva. Trudy, no. 55) (NERA 18:7)

ZABOLOTSKIY, M. S. (Docent)

Professor V. S. Smirnov, Professor V. S. Gruner, Docent K. A. Hudretsovavilis, Docent A. A. Kilesnik, Docent M. S. Zabolotskiy, and Docent V. I. Vorozov. Zovarzhyenie nishchekovikh produktov (The Science of Food Products Commerce). Second Edition, revised and supplemented. Torgizdat.

The book embraces, for economists, all divisions of active programs on the science of food products commerce, and includes a new chapter: Principles of Microbiology.

The book is intended for students of economics at advanced institutes of economics.

SO: Sovetskaya kniga (Soviet Books), No. 186, 1953, Moscow, (U-6472)

VYSHELESSKIY, A.N.; ZABOLOTSKIY, M.S.; YEREMENKO, V.V.; IMSHENETSKIY, A.A.;
KOZIN, N.I.; KOZLOV, V.V.; LEDOVSKIKH, S.I.; LOBANOV, D.I.;
MUNDRETSOVA, K.A.; RAZUMOV, A.S.; RAUTENSHTEYN, Ya.I.

F.M.Chistiakov; obituary. Mikrobiologiya 29 no.2:313 Mr.-Ap '60.
(NIRA 14:7)
(CHISTIAKOV, FEDOR MAKSIMOVICH, 1898-1959)

KOLESNIK, A.A., prof.; GRYUNER, V.S., prof.; BAKZEVICH, D.D.,
dots.; ZABOLOTSKIY, M.S., dots.; OGNEVA, O.K., dots.;
SMIRNOVA, N.A., dots.; SHOL'SKIY, N.T., kand. tekhn.
nauk, prepod.; AYRIYEVA, N.S., red.

[Study of food products] Tovarovedeniye prodrovol'stven-
nykh tovarov. [By] A.A.Kolesnik i dr. Moskva, Ekonomika,
1965. 607 p. (MIRA 18:7)

1. Moskovskiy institut narodnogo khozyaystva im. G.V.
Plekhanova (for all except Ayriyeva).

SKVORTSOV, S.O.; ZABOLOTSKY, M.V.; POPPE, H.V.

Complete processing of a various kinds of methanol-containing raw materials. Sbor. trud. TSMKHI no.13:72-93 '59. (KIBA 13:10)
(Methanol) . . . (Wood---Chemistry)

KORYAKIN, V.I.; SOKOLOVA, A.I.; Prinimali uchastiye; VODOLAZOV, P.N.
Zabolotskiy, M.V.; ZAKHAROVA, A.V.; ELINSKIEH, Ye.V.

Dry distillation of wood as a potential source of furfural.
Gidroliz.i lesokhim.prom. 13 no.5:3-6 '60. (MIEA 13:7)

1. Tsentral'nyy nauchno-issledovatel'skiy lesokhimicheskoly institut.
(Furaldehyde) (Wood distillation)

GUSADEV, V.N.; ZABOLOTSKII, M.V.; TERENT'YEVA, V.V.

Continuous distillation of wood tar. Gidreliz.i lesokhim.prom.9 no.2:
(MIRA 9:7)
6-9 '56.

1.Tsentral'nyy nauchno-issledovatel'skiy lesokhimicheskiy institut
(for Gusakov, Zabeletskiy).2.Gipreleskhim (for Terent'yeva)
(Wood tar) (Distillation apparatus)

ITSKHOKI, Yakov Semenovich; Prinimalni uchastiye: SHATS, S.Ya.; GRIGORIN-
RYABOV, V.V.; VIGLIN, S.I.; OVCHINNIKOV, N.I.; BOLOSHIN, I.A.;
ZAOLOTSKIY, N.G., red.; KORUZEV, N.N., tekhn.red.

[Pulse machines] Impul'snye ustroistva. Moskva, Izd-vo "So-
vetskoe radio," 1959. 727 p. (MIREA 12:?)
(Pulse techniques (Electronics))

GONOROVSKIY, I.S.; ITSKHOKI, Ya.S., doktor tekhn. nauk, prof.,
retsenzent; VLASOV, V.P., kand. tekhn. nauk, dots.,
retsenzent; LAPIS, A.A., kand. tekhn. nauk, dots.,
retsenzent; ZABOLOTSKIY, N.G., red.

[Radio circuits and signals] Radiotekhnicheskie tsyperi i
signaly. 1zd.2., ispr. Moskva, Sovetskoe radio, 1964.
694 p. (MIRA 17:11)

ASTAF'YEV, G.P.; SHERSHAYEVICH, V.S.; YURKOV, Yu.A.; BELYAKOV, A.V., prof.,
Geroy Sovetskogo Soyuza, doktor geogr. nauk, retsenzent;
SOLOMYANYY, V.P., kand. tekhn. nauk, dots., retsenzent;
ZABOLOTSKIY, N.G., red.; BELYAYEVA, V.V., tekhn. red.

[Airborne radio navigation apparatus] Radiotekhnicheskie sredstva
navigatsii letatel'nykh apparatov. [By] G.P. Astaf'ev i dr. Moskva,
Sovetskoe radio, 1962. 962. (MIRA 16:3)

(Radio in navigation)

(Airplanes—Electronic equipment)

ROZENBLAT, Moisey Aronovich; ZABOLOTSKIY, N.G., red.; SMUROV, B.V.,
tekhn.red.

[Magnetic amplifiers] Magnitnye usiliteli. Izd.3., perer. i
dop. Moskva, Izd-vo "Sovetskoe radio." Vol.1. 1960. 537 p.
Vol.2. 1960. 435 p. (MIRA 13:7)
(Magnetic amplifiers)

GONOROVSKIY, I.S.; ITSKHOKI, Ya.S., doktor tekhn. nauk, prof.,
retsenzent; VLASOV, V.F., kand. tekhn. nauk, dots.,
retsenzent; LAPIS, A.A., kand. tekhn. nauk, dots.,
retsenzent; ZABOLOTSKIY, N.G., red.

[Radio circuits and signals] Radiotekhnicheskie tsyeli i signaly. Moskva, Sovetskoe radio, 1963. 694 p. (MIRA 17:5)

SHCHUKIN, A.N.; ZABOLOTSKIY, N.G., red.; SMUROV, B.V., tekhn. red.

[Dynamic and fluctuation errors of controlled objects] Dinami-
cheskie i fluktuatsionnye oshibki upravliaemykh ob"ektov. Mo-
skva, Izd-vo "Sovetskoe radio," 1961. 213 p. (MIRA 1, #10)
(Automatic control) (Trajectories)

LUR'YE, O.B. Prinimali uchastiye: SHEROV-IGANT'YEV, G.P.; GAMEURO, R.A.; ENTINA, Ye.I.; YANKEL'SON, I.S., red.; ZABOLOTSEV, N.G., red.; SVESHNIKOV, A.A., tekhn. red.

[Video frequency amplifiers] Usiliteli videochastoty. Izd.2., perer. i dop. Moskva, Izd-vo "Sovetskoe radio," 1961. 675 p.
(MIRA-1512)

(Amplifiers (Electronics))

ZABOLOTSKIY, N.G.
NEYMAN, Mikhail Samoilovich; ZABOLOTSKIY, N.G., redaktor; KORUZEV, N.N.,
tekhnicheskiy redaktor.

[A course on transmitting equipment] Kurs radioperedaiushchikh
ustroistv. Moskva, Izd-vo "Sovetskoe radio," Pt. I. [High-frequency
transmitters] Radioperedatchiki vysokikh chastot. 1957. 295 p.
(MIRA 10:11)

(Radio--Transmitters and transmission)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5

SIVERS, Arkadiy Petrovich; BELOUSOV, A.P., retsenzent; ZABOLOTSHIY,
N.G., red.; SMUROV, B.V., tekhn.red.

[Radar receivers] Radiolokatsionnye priemniki. Izd.3., dop.
1 perer. Moskva, Izd-vo "Sovetskoe radio," 1959. 533 p.
(MIBA 13:1)

(Radar)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5"

MEDVEDEV, Zh.A.; ZABOLOTSKIY, N.N.; SHEN¹ TSZYAN¹-SYA [Shen Chier-hsia];
MO SI-MU [Mo Hsi-mu]; DAVIDOVA, Ye.G.; DAVIDOV, Ye.R.

Isolation of ribonucleic acid from the plasma sap of plant leaves
and studies on the nature of its metabolism. Biokhimiia 25 no.6:
1001-1011 N-D '60. (MIRA 14:5)

1. Chair of Agronomic and Biological Chemistry, Agricultural
Academy, Moscow.
(NUCLEIC ACIDS) (PLANTS—METABOLISM)

ZABOLOTSKIY, N. N., Cand of Bio Sci -- (diss) "Contents and Exchange of Ribonucleic Acid in Plants as Dependent on Nutritional Intake,"
Moscow, 1959, 18 pp (Moscow Agricultural Academy im-Timiryazev)
(KL, 2-60, 111)

MEDVEDEV, Zh.A., kand.biolog.nauk; ZABOLOTSKIY, N.N., assistant

Simple accelerated method for determining the effect of radiation from radioactive isotopes on the synthesis of lipids and nucleic acids in plants. Izv.TSENKA no.3:183-192 '59.

(MIRA 12:10)

(Lipids) (Nucleic acids) (Plants, Effect of radioactivity on)

NEYMAN, Mikhail Samoylovich; ZABOLOTSKIY, N.G., red.; KORUZEV, N.N.,
tekhn.red.

[Course in radio transmitting equipment] Kurs radioperedalushchikh
ustroistv. [Pt.2. Ultrahigh-frequency radio transmitters] Radio-
peredatchiki sverkhvysokikh chastot. 1958. 399 p. (MIREI 12:1)
(Radio, Shortwave--Transmitters and transmission)

MEDVEDEV, Zh. A., kand. biol. nauk; ZABOLOTSKIY, N.N., aspirant

Application of electrophoresis and autoradiography for studying
the nucleotide composition and phosphorus metabolism of nucleic
acids in various organs of the bean [with summary in English].
Izv. TSKhA no. 3:207-214 '58. (MIRA 11:7)

(Beans)
(Nucleotides)
(Phosphorus metabolism)

ZABOLOTSKIY, N. V.

Zabolotskiy, N. V. "On the calculation of ionic rectifiers with a stabilized current load", Sbornik trudov Kiyevsk. in-ta radio-inzheinorov, Issue 1, 1948, p. 38-44.

So: U-3261, 10 April 53, (Letopis 'Zhurnal 'nykh Statey, No. 12, 1949).

GLUZ, I.S.; ZABLOTSKIY, P.V.

Putting the decisions of the June Plenum of the Central Committee
of the CPSU into practice. Kons. i ov. prom. 14 no. 11:4-7 N '59.
(MIRA 13:2)

1.Tiraspol'skiy plodokombinat (for Gluz). 2.Starodubskiy ovoshche-
sushil'nyy kombinat (for Zablotkiy).
(Fruit juices) (Vegetables, Dried)

MASLOV, L. S.; LYALIN, V. A.; ZABOLOTSKIY, S. K.; ORADOVSKAYA, S. I.

Using compounds on a base of epoxy resins in the manufacture of
oil petroleum containers. Transp i khran nefti no. 11:32-35 '63.
(MIRA 17:5)

1. Nauchno-issledovatel'skiy institut po transportu i khraneniyu
nefti i nefteproduktov.

POSTNIKOV, Sergey Andreyevich; ZADOLOTSKIY, Sergey Nikolayevich;
TUROV, S.S., doktor biol. nauk, prof., red.; KREKSHINA, L.,
red.

[Stories of a Meshchera pathfinder] Rasskazy meshcherskogo
sledopыта. Moskva, Mosk. rabochii, 1964. 143 p.
(MIRA 18:1)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963320011-5

ZABOLOTSKIY, T. V.

C/1963

1964

METALLURGY
CHEMISTRY

DECEASED

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CIA-RDP86-00513R001963320011-5"

ZABOLOTSKIY, T.V., kand. khim. nauk, otd. red. [deceased];
ZHUKOV, A.I., red.

[Hardening of lime-clay mixes and slurry waste products]
Tverdenie izvestkovo-glinianykh smesei i shlamovykh ot-
khodov. Novosibirsk, Red.-izd. otdel Sibirskogo otd-nija
AN SSSR, 1964. 113 p. (MIRA 18:3)

1. Novosibirsk. Khimko-metallurgicheskiy institut.

ZABOLOTSKII, V.A., insb.

Mobile building plant of the construction organization on virgin
lands. Stroi. prom. 36 no. 74-10 J1 '58. (MIRA 11:8)
(automobiles--Trailers)

36079

S/135/62/000/004/012/016
A006/A101

1.230.

AUTHOR: Zabolotskiy, V. M., Engineer

TITLE: The ultrasonic method of investigating conditions of hot crack formation in welding

PERIODICAL: Svarochnoye proizvodstvo, no. 4, 1962, 32-33

TEXT: Information is given on a device and method for the filming of hot crack formation, development, and temperature of formation, during welding. The device makes it possible to carry out simultaneously welding and tension of a specimen at a given speed; an ultrasonic flaw detector assures continuous control of the weld. The process is film-recorded with a loop oscilloscope type MFO-2 (MPO-2). The ultrasonic pulse oscillations propagate in the form of longitudinal waves along the specimen, normally to the weld joint. The intensity of the signal received by the probe is determined from the degree of absorption and dispersion of the oscillations, i.e. by the presence and magnitude of defects in the weld. The electric circuit of the flaw detector differs from other systems by the supply of the signal from the amplifier to the IV type loop, and not to an electron tube. The operation of the device is described, and results of

Card 1/2 X

S/135/62/000/004/012/016
A006/A101

The ultrasonic method ...

tests are presented. Grade 10X16H4BA (10Kh16N4BA) steel specimens were welded in argon atmosphere with non-consumable electrode, on d-c of direct polarity. The tests yielded the following results. The critical deformation speed does not remain constant and tends to decrease as the linear energy of the current increases. The temperature, when hot cracks are formed during the deformation of the specimen, increases at a uniform rate with higher current values. The general deformation of the specimen depends only slightly upon the welding conditions and the deformation speed, until the appearance of the crack. The obtained values of temperature of hot crack appearance do not reveal whether or not the weld metal is in a solid-liquid state at the given temperatures; this problem requires special studies. There are 3 figures and 1 table.

Card 2/2

ACCESSION NR: AP4019876

S/0135/64/000/003/0005/0008

AUTHOR: Zabolotskiy, V. M. (Engineer)

TITLE: Evaluating the weld cold crack resistance of some structural steels

SOURCE: Svarochnoye proizvodstvo, no. 3, 1964, 5-8

TOPIC TAGS: steel weld cracking, weld cold crack, cold crack susceptibility, 30KhSNVFA steel, 23KhGSNMA steel, EI659 steel, SP45 steel, SP43 steel, EP257 steel, 20NGM steel, 20Kh steel, EI712 steel, cold crack resistance, susceptibility test, testing machine, MS-1 machine

ABSTRACT: The author cites the shortcomings of the MVTU and IMET-4 testing devices and describes the MS-1 design (see Fig. 1 in the Enclosure) which measures the resistance of thin and medium-thick (0.5—10 mm) steel specimens to formation of cold cracks in welds. Its operation is based on applying varying amounts of tension to a specimen in accordance with a precomputed loading program. Loads can vary from 0 to 10,000 kg, and the loading period can vary from 80 to 800 sec after which specimen remains under tension. The pattern of stresses must be established in advance. It was found

Card 1/3

ACCESSION NR: AP4019876

that stresses during the welding operation and at the start of cooling change repeatedly in magnitude and type. Compression stresses predominate down to certain temperatures. Tension stresses begin to develop at 200—400°C, increasing during the entire ensuing cooling period. The increase in tension is not linear, being most intensive during the initial period. The temperature at which stable tension stresses appear is shifted to higher values as the rigidity of the weldment increases. Tests were run on specimens of nine steels (30KhSNVFA, 23KhGSNMA, E1659, SP45, SP43, EP257, 20NGM, 20Kh, E1712). The last three exhibited good resistance to cold crack formation. The advantage of the developed testing device is that real conditions are more closely simulated, since the specimens are tested in the presence of gradually increasing tension. Evaluations based on test results were in good agreement with data from industrial field evaluations. Orig. art. has: 10 figures and 1 table.

ASSOCIATION: none

SUBMITTED: '00

ATD PRESS: 3046

ENCL: 01

SUB CODE: MM

NO REF Sov: 004

OTHER: 003

2/3
Card.

ACCESSION NR: AP4019876

ENCLOSURE: 01

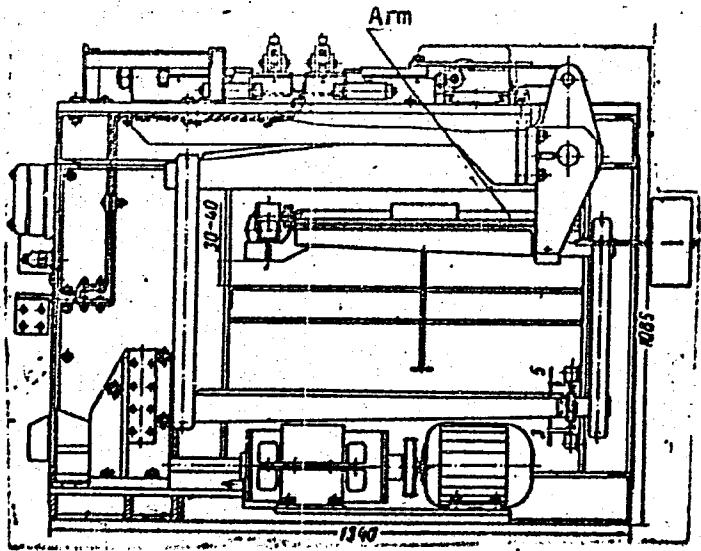


Fig. 1. The MS-1 testing device

Card 3/3

DMITRIYENKO, M.G.; KUBIKOV, V.F.; ALEKSUTOVICH, I.A.; ZABOULYEV,
V.D.

"E" divided fastenings. Put'i put'khоз. № 5:17-20
Ky '60. (MIRA 13:11)

1. Nachal'nik distantsii puti, stantsiya Molodechno,
Belorusskoy dorogi (for Dmitriyenko).
2. Nachal'nik distantsii
puti, stantsiya Dorogobuzh, Kalininskoy dorogi (for Kubikov).
3. Nachal'nik distantsii puti, stantsiya Moskva, Moskovskoy
dorogi (for Aleksutovich).
4. Nachal'nik distantsii puti,
stantsiya Ramenskoye, Moskovskoy dorogi (for Zaboluyev).

(Railroads--Rails--Fastenings)

BERNSTEYN, L.A.; KIRILLOV, Yu.D.; POL'SKIY, L.L.; SATARIN, V.I.; Prinimali
uchastiye: GRANITSA, A.G.; KANOVICH, Ye.G.; GRODZINSKIY, Ya.Yu.
KHUDYAK, M.L.; DOBROLOVSKIY, G.G.; ZABLOTSKIY, Ye.Z.; RYZHKO, D.I.;
OSTROVSKAYA, N.D.

Development and adoption of a system of hydraulic conveying of
raw slurry at the Novo-Zdolbunov Cement Plant. Trudy IZhugipro-
tsementa no.4-79-107 '63. (MIRA 17:11)

1. Gosudarstvennyy institut po proyektirovaniyu tsementnykh
zavodov v yuzhnykh rayonakh SSR (for Granitsa, Kanovich,
Grodzinskiy, Khudyak). 2. Novo-Zdolbunovskiy tsementnyy zavod
(for Dobrolovskiy, Zablotskiy, Ryzhkin, Ostrovskaya).

ZABOKRZYCKI, Juliusz, doc. dr. med.; DUBINSKA-BIELICKA, Alina

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of the bones and joints and in rheumatoid arthritis. Reumatologia
(Warsz) 3 no.1:75-80 '65.

1. Z Oddzialu Ortopedycznego Instytutu Reumatologicznego
(Kierownik: doc. dr. med. W. Harcikowski) i z Zakladu
Radiologii Instytutu Reumatologicznego (Kierownik: doc.
dr. med. J. Zabokrzycki; Dyrektor Instytutu: dr. med.
W. Bruhl).

ZABOLOTSKIJ, Yu.A., aspirant; ZOLOTAREV, T.L., doktor tekhn.nauk, prof.,
rukoveditel' raboty

Strict and approximate modeling. Trudy MEI no.46:121-132 '63.
(MIRA 18:3)

1. Kafedra gidroenergetiki Moskovskogo ordena Lenina energeticheskogo
instituta (for Zabolotskiy).

ZABOR, L. 1947

(Urol. Dept. of Univ. Hospitals of Budapest)

"In Vitro Experiments on the Renal Excretion and Antibiotic Action of Penicillin."

Orvosok Lapja, 1947 3/44 (1808-1810)
Abst: Exc. Med. IV, Vol. II, No. 1. p. 14

5(2)

AUTHORS:

Edel'man, I. I., Zabora, L. S.,
Khizhnyak, N. D.

SOV/32-25-2-16/78

TITLE:

The Accelerated Determination of Phosphorus in Coal and Coke
(Uskorennoye opredeleniye fosfora v ugle i kokse)

PERIODICAL: Zavodskaya Laboratoriya, 1959, Vol 25, Nr 2, pp 159-160 (USSR)

ABSTRACT:

It was tried to replace the time-consuming fusion of the sample necessary in the method suggested by M. Ye. Neymark and I. Ye. Kagan (Ref 1) and introduced by the GOSN 1932-54 by a simpler method. For this purpose the method described by Zdenek (Ref 2) was examined, but the final determination was not carried out polarographically but photocolorimetrically with molybdenum blue. It was shown that the results obtained with this method of acid fusion are too low, i.e. it seems likely that all of the phosphorus is not extracted. This means that the method is unsatisfactory. Investigations of a second variant, namely the incineration of the sample in the presence of air followed by a digestion in powerful acids furnished satisfactory results (Tables 1,2). The reproducibility is equally good, and the variations of parallel determinations do not exceed the permissible limits. The analysis duration

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The Accelerated Determination of Phosphorus in
Coal and Coke

SOV/32-25-2-16/78

is 1.5 hours, as compared to 4-6 hours in the case of the standard method. Furthermore, it is no longer necessary to use the "Eshka" mixture which must be used in the standard method. There are 2 tables and 2 references, 1 of which is Soviet.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy uglekhimicheskiy institut
(Ukrainian Scientific Research Institute of Coal Chemistry)

Card 2/2

EDEL'MAN, I.I.; ZABORA, L.S.; KHIZHNYAK, N.D.

Rapid determination of phosphorus in coal and coke. Zav.lab. 25 no.2:
(MIRA 12:3)
159-160 ' 59.

1. Ukrainskiy nauchno-issledovatel'skiy uglokhimicheskiy institut.
(Phosphorus--Analysis) (Coal) (Coke)

ZABORDSKY, A.G.

USSR/Chemical Technology - Chemical Products and Their Application. Fermentation
Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63539

Author: Zabordskiy, A. G., Polozhishnik, A. F.

Institution: None

Title: Dependence of Colloido-Chemical Properties of Sweet Mash on Tempera-
ture of Cooking of the Grain

Original
Periodical: Tr. Vses. n.-i. in-ta spirt. prom-sti, 1955, No 5, 33-43

Abstract: Investigated was the possibility of utilizing simplest methods of colloido-chemical analysis for determining changes occurring in sweet-mash grain. To study changes in filterability of mash, depending on grain cooking temperature, filtration analysis was utilized in the form applied to the study of properties of grain and bakery products, in the production of sugar and other industries. Amount of solid phase was determined by chemico-diastatic method from the content of starch remaining in the crushed material. Potentiometric determination

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USSR/Chemical Technology - Chemical Products and Their Application. Fermentation Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63539

Abstract: of titration acidity and pH of mash filtrate was done with ionometer of Yegorov and German; color of wort was determined with a FA-4R colorimeter-photoanalyzer. It was ascertained that use of simplest methods of colloido-chemical analysis can provide a fairly complete characteristic of the cooked grain mass and mash produced therefrom, which makes possible a more thorough technical and chemical control of the process of treatment with heat and water the raw materials in the production of alcohol.

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Zabordskiy, P. A.
PHASE I BOOK EXPLOITATION
Stankostroitel'nyy zavod imeni S. M. Kirova, Tbilisi

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Tipovoy proyekt modernizatsii tokarno-vintoreznogo stanka modeli
1D63 [DIP-30] (Standard Design for Modernizing Type 1I63 [DIP-30]
Screw - cutting lathes) Moscow, Mashgiz, 1957. 199p.
6,500 copies printed.

Additional sponsoring agency: Eksperimental'nyy nauchno-
issledovatel'skiy institut metallorezhushchikh stankov.

Ed.: Zabordskiy, P. A.; Managing Ed. for general technical literature
and catalogs (Mashgiz): Ponomareva, K. A., Engineer.

PURPOSE: This book is issued to improve lathe design, increase productivity, and make the operator's work easier and safer. It is intended for engineers and technicians designing and operating metal-cutting machines. The drawings may be used as shop drawings in manufacturing the parts necessary for modernizing lathes.

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Standard Design for Modernizing Type LD63 [DIP-30] (cont'd)

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COVERAGE: These drawings for modernizing the LD63 (DIP-30) lathe were developed by the Tbilisskiy stankostroitel'nyy zavod (Tbilisi Machine-tool Plant) in cooperation with ENIMS (Experimental Scientific Research Institute for Machine Tools). The drawings are accompanied by a presentation of the technical characteristics and kinematic scheme of the lathe. Specifications are given for parts to be manufactured as well as for purchased parts. It is estimated that the increase in productivity of the lathe will amount to 15-20 percent resulting from reduction of machine and auxiliary time. The estimated cost of modernizing a single lathe under piece-production conditions is roughly 13,000 rubles.

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| Technical characteristics of the LD 63 (DIP 30) lathe | 9 |
| List of modernized or new assemblies for the lathe | 10 |

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